Matrix and Matrix Transpose

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$$A = \begin{bmatrix} a_{11} & a_{12} & \cdots & a_{1n} \\ a_{21} & a_{22} & \cdots & a_{2n} \\ \vdots & \vdots & \vdots & \vdots \\ a_{m_1} & a_{m_2} & \cdots & a_{mn} \end{bmatrix}$$

$$A^{T} = \begin{bmatrix} a_{11} & a_{21} & \cdots & a_{m_1} \\ a_{12} & a_{22} & \cdots & a_{m_2} \\ \vdots & \vdots & \vdots & \vdots \\ a_{1n} & a_{2n} & \cdots & a_{mn} \end{bmatrix}$$

$$b_{ij} = \begin{cases} a_{ij}, & \text{if } |a_{ij}| \geq r \\ 0, & \text{if } |a_{ij}| < r \end{cases}$$

Matrix Thresholding

$$r>0$$
 $b_{ij} = \begin{cases} a_{ij}, & \text{if } |a_{ij}| \ge r \\ 0, & \text{if } |a_{ij}| < r \end{cases}$